

Dt:15/11/2023

B.Tech CSE A22 Regulation Board of Studies Meeting

Date of Meeting: 15/11/2023

Venue: IQAC

Agenda of the meeting:

1. Presentation by Chairman of BOS about department achievements.

2. Review of minutes of the previous BOS Meeting

- 3. Review and approval of the Revised Course Structures of B.Tech. (CSE) for all four years of A22 Regulation.
- 4. Approval of the syllabi of B.Tech (CSE) 3rd and 4th years of A22 Regulation.
- 5. Approval of the syllabi of B.Tech service courses for 3rd and 4th years of A22 Regulation for other branches.
- 6. Approval in calculation of attainment of Course Outcomes (Direct Tool -Internal exams) with regard to weightage.
- Approval in calculation of attainment of Program Outcomes with regard to weightage of indirect tool.

Dr. V. Aruna

Prof. & HoD, CSE Dept. SNIST

BoS-Chairperson





Dt: 15/11/2023

The following members were attended the BoS meeting

S. No.	External and Internal Members	Role	Signature
1.	Dr. Aruna Varanasi, Professor and HoD, CSE Dept. SNIST	BoS Chair Person	VAure
2.	Dr. G. Vijaya Kumari, Professor, (HAG) & Director J-Hub, JNTUH.	JNTUH Nominee	maly in
3.	Dr. R. GuruRaj, Professor, BITS, Hyderabad.		1 - Lumos
4.	Dr. S. Nagender Kumar, Professor, University of Hyderabad.	Expert from Academia	Jumes.
5.	Ms. Kanchana Rao, CHRO, ADP Solutions	Industry Experts	Laurana
6.	Mr. Dasari Kumara Swamy, India Solution Pvt. Limited.	Alumni	Dy.
7.	Dr. Sreedhar Bhukya, Professor, Dept. of CSE, SNIST		Shere
8.	Dr. H. Balaji, Professor, Dept. of CSE, SNIST		JOHN
9.	Dr. M. Rama Chandra, Assoc. Prof., Dept. of CSE, SNIST		peur
10.	Dr. V. Sowmya Devi, Assoc. Prof., Dept. of CSE, SNIST		Jouro:
11.	Dr. S. Dheeraj, Assoc. Prof., Dept. of CSE, SNIST	Internal BoS	W. C.
12.	Dr. Talakoti Mamatha, Assoc. Prof., Dept. of CSE, SNIST	members	Court
13.	Mr. D. Sreenivasa Rao, Asst. Prof., Dept. of CSE, SNIST		But
14.	Mrs. N. Archana, Asst. Prof., Dept. of CSE, SNIST		AW
15.	Mrs. M. Yellamma, Asst. Prof., Dept. of CSE, SNIST		449
16.	Mr. Meeravali Shaik, Asst. Prof., Dept. of CSE, SNIST		mtie
17.	Mr. D. Rambabu, Asst. Prof., Dept. of CSE, SNIST		()
18.	Mr. V. Satheesh Kumar, Asst. Prof., Dept. of CSE, SNIST		Saterin
19.	Mrs. P. Haritha, Asst. Prof., Dept. of CSE, SNIST		Hother





Minutes of the Meeting:

Agenda Item 1. Presentation by Chairman of BOS-CSE about department achievements.

	Publicatio ns/ UGC/ conferenc es	Awards	Patents (Filed/Pu blished/ Granted)	Books & Chapters	FDPs Organized / Attended	1.0100	Certification courses
CSE Faculty	25/130/9	16	2/4/1	9	9/21	63	5

	Indust rial visits condu cted/ partici pated	Awards Extra curricular/ Co- curricular	Inter nshi ps	Certifi cation course s ((NPT EL/Co ursera)	Value Added Programs conducte d/ complete d	Results (2019- Batch)	Qualified in National/ Internation al examinations	Events participat ed (outside) & Awarded
CSE Students	5/262	51	835	208	11/1,155	290/330	20	45/7

Agenda Item 2. Review of minutes of the previous BOS Meeting.

Reviewed minutes of previous BOS Meeting.

S. No.	Suggestions	Action Taken
1	Dr. S. Vishwanadha Raju suggested O To rename the Orientation Programme as Induction Program O To rename Data Structures Lab using C as Data Structures using C Lab O There should not be any commas in the course titles and hence the respective are suggested renaming accordingly	Renamed
2	 Dr. V. Vishwanadha Raju and Dr. Shymala suggested Mandatory courses with zero credits must be evaluated by internally. Environmental Science must be studied after studying UHV course. 	Same is followed
3	Mr. Anirudh suggested that Robotic Process Automation course to be included as one of the course in Open Electives	Included
4	In Computer Organization Lab, instead of 8086 microprocessor, Raspberry Pi and Arduino can be introduced.	Informed to ECE BoS members

vom 1- Limest Dry. James Kanhara



5	Rearrangement of contents in Data Structures course must be done to follow the logical flow.	Rearranged
6	Conduct and encourage to participate students in Hackathons from 2 nd year onwards.	Hackathons are conducted and all the students are encouraged to participate in hackathons.
7	Remove the articles in the courses' syllabi.	Removed

Agenda Item 3. Review and approval of the Revised Course Structures of B.Tech. (CSE) III & IV years of A22 Regulation.

The following resolutions are made as per the recommendations of members of BOS.

a. Changes in course in course structure:

S. No.	Approved A22 Course Structure	Proposed changes in A22 course structure (New)	Inputs taken from
1	Machine Learning is in PE – II (III - II)	Machine Learning in III – II core subjects.	BOS members
2	No Machine Learning Lab, instead we have Artificial Intelligence Lab in IV - I	Machine Learning Lab in III – II, instead of Artificial Intelligence Lab in IV - I	Faculty Feedback, Alumni Survey, BOS members
3	Automata Theory and Compiler Design in III – II	Automata Theory and Compiler Design in IV - I	BOS members
4	Compiler Design lab in III - II	Compiler Design lab in IV - I	BOS members
5	Artificial Intelligence and Deep Learning in IV – I	Artificial Intelligence and Deep Learning in PE – II (III - II)	BOS members
6		Image Processing and computer Graphics are swapped between PE-1 & PE-2, as image processing need to be studied before computer graphics	BOS members

b. New Courses introduced, courses moved, removed, renamed in the curriculum:

Proposed Changes	A20	A22	Inputs taken from
		In III – II Machine Learning Lab	Faculty Feedback
		In PE – I Information Retrieval Systems Advanced Computer	R18 JNTUH

f- Lourst

Kump Jackery.

Dil Jana



SREENIDHI | EDUCATIONAL GROUP

SREENIDHI INSTITUTE OF SCIENCE AND



Department of Computer Science and Engineering

		Architecture • Human Computer Interaction	
Proposed new courses		In PE – II Distributed Databases	R18 JNTUH
to be introduced		In PE – III Mobile Application Development Pattern Recognition Advanced Operating Systems Soft Computing	R18 JNTUH
a		In PE – IV • Full stack Development • Natural Language Processing • DevOps	Faculty Feedback, Alumni Survey, Industry Experts, Employer Feedback, R18 JNTUH
		In PE – V • Ethical Hacking • Advanced Algorithms	R18 JNTUH, Faculty Feedback, Alumni Survey
	In II-II Software Engineering Design and Analysis of Algorithms Computer Aided Software Engineering (CASE) Tools Lab Design and Analysis of Algorithms Lab	 Moved to III – I. Computer Aided Software Engineering (CASE) Tools Lab is renamed as Software Engineering Lab. 	Bosmenbers
	In III – I Information Security Information Security Lab	 Moved to IV – I Information Security renamed as Cryptography and Network Security. 	BOS member
	In III – I Open Elective - I	Moved to III - II	BOS members
Courses noved	In III – II Automata Theory and Compiler Design Compiler Design	Moved to IV - I	BOS members

l. Lound V Auro

Laura Jahr

Dry June



SREENIDHI EDUCATIONAL GROUP

SREENIDHI



Department of Computer Science and Engineering

	Lab		
	In III – II Cyber Security and Cyber Laws	Moved to IV - II	Bosmenber
	In III – II Open Elective - II	Moved to IV - I	BOS members
	In IV – I Professional Elective -III	Moved to III - II	BOS members
	In IV – I Artificial Intelligence and Deep Learning	Moved to Professional Elective -II	Bosmenhaus
	In IV – II Professional Elective - V	Moved to IV - I	Bosnenbus
	In Professional Elective – II, Machine Learning	Moved to III – II core subject.	BOS members, To
	In III – II Group Project		BOS membes
Courses Removed	In IV – I Software Automation and Testing Software Automation and Testing Lab		Important topics of these Courses are included Sont ware in Software Engineery A softwaretnesseed
	In IV – I Data Analytics Lab		introduced +
	In III – I • Data Communications and Networks	Is renamed as Computer Networks	Bus members
Courses Renamed	In III – I	In IV – I Is renamed as Cryptography and Network Security	Bes menbers
	In II – II Computer Aided Software Engineering (CASE) Tools Lab	In III – I Is renamed as Software Engineering Lab.	Bas members

Agenda Item 4. Approval of the syllabi of B.Tech (CSE) 3rd and 4th years of A22 Regulation.

1- Lumst

Orsign

Lunum

Bil June

P.T.O.



SREENIDHI EDUCATIONAL GROUP



Department of Computer Science and Engineering

Minutes:

Syllabus Modified:

S.No.	Name of the Course	Changes made	Inputs From
1	Data Warehousing and Data Mining [III -I]	Unit -1 is too lengthy and hence it is accommodated in to another units. Text Mining, Web Mining are added in the unit-6	Industry Experts, Exit survey, Faculty Feedback Alumni Survey, Skills in demand, Faculty Feedback JNTUH & other reputed Universities
2	Software Engineering [III - I]	Unit-I 1) Added Software Development life cycle	Suggested by course coordinator and subject experts to have basic idea of Software development life cycle so that students can understands essence of further units.
		Unit-II 1) Added Requirements engineering process	Inputs from Software professional bodies
		2) Shifted introduction to UML to III Unit	Suggested by course coordinator and subject experts to maintain the order of SDLC
		III-Unit 1) V model, Agile model, SCRUM	Suggestions from Industry Experts, Inputs from Exit Survey Summary Suggested by course coordinator and subject experts to meet current market needs
		2) High-Level Design(HLD) and	Suggested by

V Durch Japan

Lunhara

Dil. June



SREENIDHI SREENIDHI INSTITUTE OF SCIENCE AND





Department of Computer Science and Engineering

	Low Lovel D	
	Low-Level Design(LLD), Coupling and Cohesion	course coordinator and subject experts to meet current market needs
	3) Removed Common Modeling techniques of class diagram	Suggested by course coordinator and subject experts
	IV-Unit 1) Software Testing Introduction	Suggested by course coordinator and subject experts
	V -Unit 1) Added Testing Strategies and Techniques	1)Inputs from Software professional bodies 2) Inputs from Exit Survey Summary.
	2) Added Product and Process metrics	Suggested by course coordinator and subject experts
	VI Unit 1) Risk Management	Inputs from Software professional bodies
	2) Added Quality Management	Inputs from Software professional bodies
Design and Analysis of Algorithms [III -I]	Instead of Amortized Analysis replaced new topic which includes Connected and Biconnected Components in UNIT-1	From NIT Warangal Syllabus
	Removed Reliability Design topic in UNIT-4	From the Feedback
	Instead of Branch and Bound topics replaced new topic which includes Maze Generation Problem in UNIT-5	From NIT Warangal Syllabus
	new topics which includes Branch and Bound in UNIT-6	From the Feedback
Software Engineering Lab [III -I]		1 1 1 1 1 1



SREENIDHI | EDUCATIONAL GROUP





Department of Computer Science and Engineering

4		Added SRS Document	Suggested by course coordinator and subject expert
		Added JUNIT tool	Suggestions from Industry Experts, Inputs from Exit Survey Summary
		Added Automation Testing tools to meet current market needs (UFT 12.01 and Selenium WebDriver)	Suggestions from Industry Experts, Inputs from Exit Survey Summary.
5	Computer Networks Lab [III-1]	Simulate Distance-Vector Routing using CISCO Packet Tracer. Simulate Network Topologies using CISCO Packet tracer.	BOS members
6	Operating Systems [III -II]	Introduced Threads concept in Unit-I	From JNTUH, OU, NITW, IITH Syllabus
		Introduced Inter process Communication(IPC) concept due to continuity of Process Synchronization in Unit-III, Deadlocks concept moved to next unit i.e., UNIT-IV	From JNTU, OU, NITW, IITH Syllabus
		The various concepts of Operating Systems with regard to windows and Linux are discussed by faculty in the classroom and hence it is not need to reflected in the syllabus	
	Web Technologies [III -II]	Included CSS3 and removed basics of HTML, replacing with HTML5. Included advanced script, tail wind. Removed XML, JDBC, JSON, typescript, BOOT STRAP, angular, servlets, PHP	Industry Experts, Exit survey, Faculty Feedback Alumni Survey, Skills in demand, Faculty Feedback
		Included Node JS, rest API, express, mongo DB, react JS	JNTUH & other reputed

vacural Stight

funtara Dij.



SREENIDH | SREENIDHI | SREENID





Department of Computer Science and Engineering

			Universities, BOS members
8	Web Technologies Lab [III -II]	All changes are inline with proposed A22 web technologies syllabus	Industry Experts, Exit survey, Faculty Feedback
		Exercises are divided in 6 cycles representing 1 cycle for each unit	Alumni Survey, Skills in demand, Faculty Feedback, JNTUH & other reputed Universities, BOS members
9	Automata Theory and Compiler Design [IV -I]	In UNIT-I equivalence of DFA's concept is added.	Reference from JNTU Hyderabad
	Appendix and a second s	In UNIT-III Chomsky hierarchy of languages is moved to UNIT-I.	Reference from JNTU Hyderabad
		In UNIT-IV predictive parser is same as LL(1) so it is removed.	Reference from JNTU Hyderabad
		In UNIT-V LR(1), LR(K) are duplicated so those topics are removed.	Reference from JNTU Hyderabad
		In UNIT-VI Type Checker topic is removed and Local Optimization is included.	Reference from JNTU Hyderabad
10	Cryptography and Network Security [IV-I]	SHA -1, HMAC moved to third unit RC4 to be added in unit 2.	Industry Experts, Exit survey, Faculty Feedback Alumni Survey, Skills in demand, Faculty Feedback, JNTUH & other reputed Universities
11	Information Security [IV – I]	Implement a program to transfer file between Client-Server using Socket.	BOS members
12	Introduction to Data Science [PE – I]	R is replaced with python, basics and advanced statistics are included.	Faculty Feedback BOS members
13	Full Stack Development [PE - IV]	JQuery, JSON	BOS members



Additional inputs:

- Guest lectures or invited talks can be conducted for the course Cyber Security & Cyber Laws -Suggested
- b. Hackathons are to be conducted more often.

Agenda 6: Approval in calculation of attainment of Course Outcomes (Direct Tool -Internal exams) with regard to weightage.

This point is different to next meeting.

Agenda 7: Approval in calculation of attainment of Program Outcomes with regard to weightage of indirect tool.

This point is of cferre to next meeting.

Dr. V. Aruna

Prof. & HoD, CSE Dept. SNIST

BoS-Chairperson

10

Orig. Junes

Lawhard

V. Lumot

SREENIDHI INSTITUTE OF SCIENCE & TECHNOLOGY

B. Tech.

COMPUTER SCIENCE AND ENGINEERING

COURSE STRUCTURE FOR I to IV Years

A22 Regulation

(Applicable for the Batches admitted from 2022)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY

(An Autonomous Institution approved by UGC and affiliated to JNTUH)

Yamnampet, Ghatkesar, Hyderabad - 501 301

November, 2023

Department of COMPUTER SCIENCE AND ENGINEERING

B.Tech (COMPUTER SCIENCE AND ENGINEERING)-A22 Regulation B.Tech (CSE) I YEAR I SEM

SI. No.	Course Code	Course	L	T	P	С	Max. Marks		
							CIE	SEE	
1	9HC04	Engineering Chemistry	2	1	0	3	40	60	
2	9FC01	Problem Solving using C	3	0	0	3	40	60	
3	9HC11	Matrix Algebra and Calculus	2	1	0	3	40	60	
4	9HC01	Essential English Language Skills	2	0	0	2	40	60	
5	9HC61	Oral Communication Lab – I	0	0	2	1	40	60	
6	9HC64	Engineering Chemistry Lab	0	0	3	1.5	40	60	
7	9FC61	Problem Solving using C Lab	0	0	3	1.5	40	60	
8	9BC61	Workshop/Manufacturing Processes Lab	0	1	3	2.5	40	60	
9	9HC18	Induction Program	2-we		beginni nester	ng of the		ctory / Not	
		Total	9	3	11	17.5	320	480	

B.Tech (CSE) I YEAR II SEM

SI. No.	Course Code	Course	L	T	P	С	Ma	x. Marks
110.	Couc						CIE	SEE
1	9HC07	Engineering Physics	2	1	0	3	40	60
2	9EC01	Data Structures	3	0	0	3	40	60
3	9HC12	Advanced Calculus	2	1	0	3	40	60
4	9AC48	Basic electrical and electronics Engineering	3	0	0	3	40	60
5	9BC01	Engineering Graphics	1	0	4	3	40	60
6	9HC62	Oral communication Lab – II	0	0	3	1.5	40	60
7	9HC66	Engineering Physics Lab	0	0	3	1.5	40	60
8	9EC61	Data Structures using C Lab	0	0	3	1.5	40	60
		Total	11	2	13	19.5	320	480

V. Lumg

pri.

Lauran

B.Tech (CSE) II YEAR I SEM

Sl.N o.	Course Category	Course Code	Dept Course	Course	L	T	P/ D	C	Max.	Mark
1.	PC	9EC02	CCE			1	D		CIE	SE
		3LC02	CSE	Object Oriented Programming through Java	2	I	0	3	40	60
2.	ES	9CC51	ECE	Digital Electronics	-	-				
3.	BS	9HC16	S&H		3	0	0	3	40	60
		Stieto	San	Quantitative Aptitude and Logical Reasoning	3	0	0	3	40	60
4.	BS	9F303	IT	Discrete Mathematics	-					
5.	HS	9HC03	S&H		2	1	0	3	40	60
		311003	S&H	Universal Human Values	3	0	0	3	40	60
6.	PC	9EC62	CSE	Object Oriented Programming through Java Lab	0	0	4	2	40	60
7.	ES	9CC82	ECE	Digital Electronics Lab	0	0	3	1.5	40	60
8.	ES	9AC95	EEE and ECE	Basic electrical and Electronics Engineering Lab	0	0	4	2	40	60
				Total	1	2	11	20.5	320	480

B.Tech (CSE) II YEAR II SEM

Sl.No.	Course Category	Course Code	Dept Course	Course	L	T	P/D	C	Max. N	larks
1.	ES .	9CC54	ECE	Computer Organization	1-	-			CIE	SEE
2.	DC				3	0	0	3	40	60
2.	PC	9FC04	IT	Database Management Systems	3	0	0	3	40	60
3.	PC	9FC02	IT	Python Programming	2	1	0	3	40	60
4.	BS	9HC15	S&H	Probability and Statistics		1	0	3	40	60
5.	HS	9ZC01	SMS	Business Economics and Financial Analysis	3	0	0	3	40	60
6.	HS	9HC05	S&H	Environmental Science		0	0	-	Pass / Fail	
7.	HS	9HC63	S&H	Soft Skills Lab	0	1	2	2	40	60
8.	PS	9E484	CSE	Technical Seminar	0	1	0	1	100	
9.	PC	9FC62	IT	Python Programming Lab	0	0	4	2	40	60
		9FC63		Database Management Systems Lab	0	0	3	1.5	40	60
11.	ES	9FC64	IT	IT Workshop and Computer Organization Lab	0	0	4	2	40	60
		1 2		Total	16	4	13	23.5	460	540

Note: Summer Industry Internship-I is to be carried out during the summer vacation between 4th and 5th semesters

Auro

Dry June

Luna

B.Tech (CSE) III YEAR I SEM

Sl.No.	Course Category	Dept Course	Course	L	T	P/D	C	Max.	Marks
								CIE	SEE
1.	PE	CSE/IT	Professional Elective -I	3	0	0	3	40	60
2.	PC	IT	Data Warehousing and Data Mining	2	1	0	3	40	60
3.	PC	CSE	Software Engineering		0	0	2	40	60
4.	PC	CSE	Design and Analysis of Algorithms	2	1	0	3	40	60
5.	PC	CSE	Computer Networks	3	0	0	3	40	60
6.	PC	TOI	Intellectual Property Rights	3	0	0	-	Pass/	
7.	PC	CSE	Software Engineering Lab	0	0	3	1.5	40	60
8.	PC	CSE	Computer Networks and Design and Analysis of Algorithms Lab	0	0	4	2	40	60
9.	PC	IT	Data Warehousing and Data Mining lab	0	0	3	1.5	40	60
10.	PS	CSE	Summer Industry Internship –I	0	0	0	1	40	60
			Total	15	2	10	20	360	540

B.Tech (CSE) III YEAR II SEM

Sl.No.	Course Category	Dept Course	Course	L	T	P/D	C	Max. Marks		
1.	OE .	Y	Ones Flori					CIE	SEE	
0.000			Open Elective –I	3	0	0	3	40	60	
2.	PE	CSE/IT	Professional Elective -II	3	0	0	3	40	60	
3.	PE	CSE/IT	Professional Elective -III	3	0	0	3	40	60	
4.	PC	CSE	Operating Systems	3	0	0	3	40	60	
5.	PC	IT	Machine Learning	2	1	0	3	40	60	
6.	PC	IT	Web Technologies	2	1	0	3	40	60	
7.	PC	CSE	Operating Systems and Machine LearningLab	0	0	3	1.5	40	60	
8.	PC	IT	Web Technologies Lab	0	0	3	1.5	40	60	
9.	PC	CSE	Comprehensive Viva Voce	0	0	0	1	40	60	
			Total	16	2	6	22	360	540	

Note: Summer Industry Internship-II is to be carried out during the summer vacation between 6th and 7th semesters.

L. Land

B.Tech (CSE) IV YEAR I SEM

Sl.No.	Course Category	Dept Course	Course	L	Т	P/D	С	Max.	Marks
-		i i	A Section 1		V. 1	16		CIE	SEE
1.	OE		Open Elective -II	3	0	0	3	40	60
2.	PE	CSE/IT	Professional Elective -IV	3	0	0	3	40	60
3.	PE	CSE/IT	Professional Elective -V	3	0	0	3	40	60
4.	PC	CSE	Automata Theory and Compiler Design	2	1	0	3	40	60
5.	PC	CSE	Linux Programming	2	1	0	3	40	60
6.	PC	CSE	Cryptography and Network Security	3	0	0	3	40	60
7.	PC	CSE	Compiler Designand Information Security Lab	0	0	3	1.5	40	60
8.	PC	CSE	Linux Programming Lab	0	0	3	1.5	40	60
9.	PS	CSE	Summer Industry Internship –II	0	0	0	1 ;	40	60
			Total	16	2	6	22	360	540

B.Tech (CSE) IV YEAR II SEM

SI.No.	Course Category	Dept Course	Course	L	T	P/D	C	Max. Mark	
						1		CIE	SEE
1	OE		Open Elective -III	3	0	0	3	40	60
2	PC	TI	Cyber Security and Cyber laws	2	0	0	2	40	60
3	PS	CSE	Major Project	0	0	20	10	40	60
			Total	5	0	20	15	120	180

K. Lund V Dune

Del. James Luman

Professional Electives

Co de	PE-1 (3-1)	Cod e	PE – II (3-2)	Code	PE – III (3-2)	Cod	PE-IV	Co	PE - V (4-1)
IT	Information Retrieval Systems	IT	C# & .Net	IT	Mobile Application Development	CS E	Full stack Development	CS E	Augmente d and Virtual
CS	Image Processing	IT	Computer Graphics	CSE	Pattern Recognition	AI ML	Natural Language Processing	CS E	Reality Computer Vision
E	Introduction to Data Science	CS E	Artificial Intelligence and Deep Learning	IT	Big Data Analytics	DS	DevOps	IT	Cloud Computin
CS E	Advanced Computer Architecture	CS E	Distributed Databases	9IC4 5 IOT	Introduction to Internet of Things	CS	Block Chain Technologies	CS	Ethical Hacking
IT	Human Computer Interaction	CS E	Semantic Web & Social Networks	CSE	Advanced Operating Systems	CS E	Mobile Computing	AI M	Quantum Computin
CS E	Software Requirements and Estimation	IT	Software Project Management	CSE	Soft Computing	IT	Agile Software Development	E	Advanced Algorith ms

V Auro

pris. James Kannar